



## **CITY OF WASHINGTON, ILLINOIS**

### **City Council Agenda Communication**

**Meeting Date:** June 19, 2023

**Prepared By:** Dennis Carr – City Engineer

**Agenda Item:** Water Main Leak Detection Services

**Explanation:** The IEPA does a review of our Water Treatment System and gives staff a report of any findings that need to be addressed. One of the findings that has been brought to our attention is that we have reported >20% unaccounted water loss. IEPA is requiring the City to work towards reducing this water loss. The first step in this is to perform a leak detection study. Last fiscal year, we focused the study on the older areas of town with cast-iron watermain. We budgeted to continue working through the rest of the City in the current budget.

Leak Detection requires specialized equipment and very few firms do this work. There is 1 local firm that performs this type of work, several firms in the suburbs, and a couple in southern Illinois. Staff has a good relationship with TWM, who is the local firm, and they are the firm who performed the work in 2022. Staff has been working on other items and we have not gone through all of the data, so by completing the work this summer, we can look to work through it all at one time.

**Fiscal Impact:** There is \$30,000 budgeted for leak detection in the water fund.

#### **Recommendation Summary:**

Staff is recommending the approval to enter into an agreement with TWM to perform Water Main Leak Detection Services for a price not to exceed \$30,000.



**SHORT FORM OF AGREEMENT BETWEEN OWNER AND ENGINEER  
FOR PROFESSIONAL SERVICES  
WATER INFRASTRUCTURE SERVICES – LEAK DETECTION SERVICES**

**THOUVENOT, WADE & MOERCHEN, INC.**  
1014 W Pioneer Parkway, Suite 100  
Peoria, IL 61615  
309.326.6030  
[WWW.TWM-INC.COM](http://WWW.TWM-INC.COM)

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**THIS IS AN AGREEMENT** effective as of **June 9, 2023** ("Effective Date") between **City of Washington** ("Owner") and **Thouvenot, Wade & Moerchen, Inc.** ("Engineer").

Owner's Project, of which Engineer's services under this Agreement are a part, is generally identified as follows: **2023 Washington Leak Detection Services** ("Project").

**Refer To Appendix 1 – Scope of Services**

Owner and Engineer further agree as follows:

**1.01 Basic agreement and period of service**

- A. Engineer shall provide or furnish the Services set forth in this Agreement. If authorized by Owner, or if required because of changes in the Project, Engineer shall furnish services in addition to those set forth above ("Additional Services").
- B. Engineer shall complete its Services within the following specific time period: Project to be completed by 4/30/2023.
- C. If, through no fault of Engineer, such periods of time or dates are changed, or the orderly and continuous progress of Engineer's Services is impaired, or Engineer's Services are delayed or suspended, then the time for completion of Engineer's Services, and the rates and amounts of Engineer's compensation, shall be adjusted equitably.

**2.01 Payment procedures**

- A. Invoices: Engineer shall prepare invoices in accordance with its standard invoicing practices and submit the invoices to Owner on a monthly basis. Invoices are due and payable within 30 days of receipt. If Owner fails to make any payment due Engineer for Services, Additional Services, and expenses within 30 days after receipt of Engineer's invoice, then (1) the amounts due Engineer will be increased at the rate of 1.5% (18% True Annual Rate) per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day, and (2) in addition Engineer may, after giving seven days written notice to Owner, suspend Services under this Agreement until Engineer has been paid in full all amounts due for Services, Additional Services, expenses, and other related charges. Owner waives any and all claims against Engineer for any such suspension.
- B. Payment: As compensation for Engineer providing or furnishing Services and Additional Services, Owner shall pay Engineer as set forth in Paragraphs 2.01, 2.02 (Services), and 2.03 (Additional Services). If Owner disputes an invoice, either as to amount or entitlement, then Owner shall promptly advise Engineer in writing of the specific basis for doing so, may withhold only that portion so disputed, and must pay the undisputed portion.

**2.02 Basis of Payment – Hourly Rates Plus Reimbursable Expenses**

- A. Owner shall pay Engineer for Services as follows:
  - 1. An amount equal to the cumulative hours charged to the Project by each class of Engineer's employees times standard hourly rates for each applicable billing class, plus reimbursement of expenses incurred in connection with providing the Services and Engineer's consultants' charges, if any.
  - 2. Engineer's Standard Hourly Rates are attached as Appendix 1.



3. The total compensation for Services and reimbursable expenses shall not exceed \$ **30,000**.

2.03 *Additional Services:* For Additional Services, Owner shall pay Engineer an amount equal to the cumulative hours charged in providing the Additional Services by each class of Engineer's employees, times standard hourly rates for each applicable billing class; plus reimbursement of expenses incurred in connection with providing the Additional Services and Engineer's consultants' charges, if any. Engineer's standard hourly rates are attached as Appendix 2.

3.01 *Termination*

- A. The obligation to continue performance under this Agreement may be terminated:

1. For cause,

- a. By either party upon 30 days written notice in the event of substantial failure by the other party to perform in accordance with the Agreement's terms through no fault of the terminating party. Failure to pay Engineer for its services is a substantial failure to perform and a basis for termination.
- b. By Engineer:
  - 1) upon seven days written notice if Owner demands that Engineer furnish or perform services contrary to Engineer's responsibilities as a licensed professional; or
  - 2) upon seven days written notice if the Engineer's Services are delayed for more than 90 days for reasons beyond Engineer's control, or as the result of the presence at the Site of undisclosed Constituents of Concern, as set forth in Paragraph 5.01.H.
- c. Engineer shall have no liability to Owner on account of a termination for cause by Engineer.
- d. Notwithstanding the foregoing, this Agreement will not terminate as a result of a substantial failure under Paragraph 3.01.A.1.a if the party receiving such notice begins, within seven days of receipt of such notice, to correct its substantial failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of notice; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30 day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein shall extend up to, but in no case more than, 60 days after the date of receipt of the notice.

2. For convenience, by Owner effective upon Engineer's receipt of written notice from Owner.

- B. In the event of any termination under Paragraph 3.01, Engineer will be entitled to invoice Owner and to receive full payment for all Services and Additional Services performed or furnished in accordance with this Agreement, plus reimbursement of expenses incurred through the effective date of termination in connection with providing the Services and Additional Services, and Engineer's consultants' charges, if any.

4.01 *Successors, Assigns, and Beneficiaries*

- A. Owner and Engineer are hereby bound and the successors, executors, administrators, and legal representatives of Owner and Engineer (and to the extent permitted by Paragraph 4.01.B the assigns of Owner and Engineer) are hereby bound to the other party to this Agreement and to the successors, executors, administrators, and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.
- B. Neither Owner nor Engineer may assign, sublet, or transfer any rights under or interest (including, but without limitation, money that is due or may become due) in this Agreement without the written consent of the other party, except to the extent that any assignment, subletting, or transfer is mandated by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.
- C. Unless expressly provided otherwise, nothing in this Agreement shall be construed to create, impose, or give rise to any duty owed by Owner or Engineer to any Constructor, other third-party individual or entity, or to any surety



for or employee of any of them. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Owner and Engineer and not for the benefit of any other party.

5.01 *General Considerations*

- A. The standard of care for all professional engineering and related services performed or furnished by Engineer under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality. Engineer makes no warranties, express or implied, under this Agreement or otherwise, in connection with any services performed or furnished by Engineer. Subject to the foregoing standard of care, Engineer and its consultants may use or rely upon design elements and information ordinarily or customarily furnished by others, including, but not limited to, specialty contractors, manufacturers, suppliers, and the publishers of technical standards.
- B. Engineer shall not at any time supervise, direct, control, or have authority over any Constructor's work, nor shall Engineer have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, or the safety precautions and programs incident thereto, for security or safety at the Project site, nor for any failure of a Constructor to comply with laws and regulations applicable to such Constructor's furnishing and performing of its work. Engineer shall not be responsible for the acts or omissions of any Constructor.
- C. Engineer neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform its work.
- D. Engineer's opinions (if any) of probable construction cost are to be made on the basis of Engineer's experience, qualifications, and general familiarity with the construction industry. However, because Engineer has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractors' methods of determining prices, or over competitive bidding or market conditions, Engineer cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost prepared by Engineer. If Owner requires greater assurance as to probable construction cost, then Owner agrees to obtain an independent cost estimate.
- E. Engineer shall not be responsible for any decision made regarding the construction contract requirements, or any application, interpretation, clarification, or modification of the construction contract documents other than those made by Engineer or its consultants.
- F. All documents prepared or furnished by Engineer are instruments of service, and Engineer retains an ownership and property interest (including the copyright and the right of reuse) in such documents, whether or not the Project is completed. Owner shall have a limited license to use the documents on the Project, extensions of the Project, and for related uses of the Owner, subject to receipt by Engineer of full payment due and owing for all Services and Additional Services relating to preparation of the documents and subject to the following limitations:
  - 1. Owner acknowledges that such documents are not intended or represented to be suitable for use on the Project unless completed by Engineer, or for use or reuse by Owner or others on extensions of the Project, on any other project, or for any other use or purpose, without written verification or adaptation by Engineer;
  - 2. any such use or reuse, or any modification of the documents, without written verification, completion, or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to Engineer or to its officers, directors, members, partners, agents, employees, and consultants;
  - 3. Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and consultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the documents without written verification, completion, or adaptation by Engineer; and such limited license to Owner shall not create any rights in third parties.
- G. Owner and Engineer may transmit, and shall accept, Project-related correspondence, documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website, in accordance with a mutually agreeable protocol.



- H. The parties acknowledge that Engineer's Services do not include any services related to unknown or undisclosed Constituents of Concern. If Engineer or any other party encounters, uncovers, or reveals an unknown or undisclosed Constituent of Concern, then Engineer may, at its option and without liability for consequential or any other damages, suspend performance of Services on the portion of the Project affected thereby until such portion of the Project is no longer affected, or terminate this Agreement for cause if it is not practical to continue providing Services.
- I. This Agreement is to be governed by the law of the state in which the Project is located.
- J. Engineer's Services and Additional Services do not include: (1) serving as a "municipal advisor" for purposes of the registration requirements of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) or the municipal advisor registration rules issued by the Securities and Exchange Commission; (2) advising Owner, or any municipal entity or other person or entity, regarding municipal financial products or the issuance of municipal securities, including advice with respect to the structure, timing, terms, or other similar matters concerning such products or issuances; (3) providing surety bonding or insurance-related advice, recommendations, counseling, or research, or enforcement of construction insurance or surety bonding requirements; or (4) providing legal advice or representation.

#### 6.01 Insurance

- A. The Engineer shall secure and endeavor to maintain professional liability insurance, commercial general liability insurance, and automobile liability insurance to protect the Engineer from claims for negligence, bodily injury, death or property damage which may arise out of the performance of the Engineer's services under this Agreement. The Engineer shall also carry Worker's Compensation Insurance. The Engineer shall, if requested in writing, provide certificates of insurance to the Owner.

#### 7.01 Indemnification

- A. The Engineer shall indemnify and hold harmless the Client and its officers, members, directors, partners, agents, employees, and sub-consultants against any and all claims, damages, losses and expenses to the extent they are caused by the negligent acts, errors, or omissions of the Engineer and its officers, members, directors, partners, agents, employees, and sub-consultants in the performance of its services under this Agreement, subject to the Risk Allocation provisions. The Client shall indemnify and hold harmless the Engineer and its officers, members, directors, partners, agents, employees and sub-consultants from and against any and all claims, damages, losses and expenses arising out of or resulting from the performance of the services, provided that any such claims, damage, loss or expense is caused in whole or in part by the negligent act or omission and/or strict liability of the Client, anyone directly or indirectly employed by the Client (except the ENGINEER) or anyone for whose acts any of them may be liable. This indemnification shall include any claim, damage or loss due to the presence of hazardous materials. Neither party shall have any obligation to defend or pay for the defense costs of the other party until such time as there is a determination of fault of the parties and in that event, the party found at fault shall only be obligated to reimburse the other party for its reasonable defense costs on a percentage basis in direct proportion, as determined by the court, to the percentage of fault of the party who was found at fault.
- B. For third party claims, to the fullest extent permitted by law, the Client hereby agrees to indemnify, hold harmless and defend the Engineer, including its officers, members, directors, partners, agents, employees, and sub-consultants from and against all third party claims, including bodily injury, property damage, products liability, demands, damages and losses, causes of actions, judgments, fines, penalties and claims expense including attorney fees, caused by or alleged to have been caused by anything other than negligent performance by the Engineer of services under the agreement related to this project. Said indemnification shall also apply to any deductible that the Engineer may be obligated to pay under its Professional Liability Policy resulting therefrom.
- C. In recognition of the relative risks, rewards and benefits of the Project to both the Client and the Engineer, the risks have been allocated such that the Client agrees that, to the fullest extent permitted by law, the Engineer's total liability to the Client and any third parties for any and all injuries, claims, losses, expenses, damages or claim expenses arising out of this Agreement, from any cause or causes, inclusive of all costs including attorney and expert fees shall not exceed the amount of \$50,000, or the amount of the Engineer's fees (whichever is greater). Such cause or causes include, but are not limited to, the Engineer's negligent acts, errors, omissions, strict liability,



breach of contract, breach of expressed or implied warranty, or any other theory of legal liability. This limitation of liability shall apply to the Engineer and its officers, members, directors, partners, agents, employees, and sub-consultants.

- D. Owner and Engineer agree to negotiate each dispute between them in good faith during the 30 days after notice of dispute. If negotiations are unsuccessful in resolving the dispute, then the dispute shall be mediated. If mediation is unsuccessful, then the parties may exercise their rights at law.

8.01 *Total Agreement*

- A. This Agreement (including any expressly incorporated attachments), constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

9.01 *Definitions*

- A. **Constructor**—Any person or entity (not including the Engineer, its employees, agents, representatives, and consultants), performing or supporting construction activities relating to the Project, including but not limited to contractors, subcontractors, suppliers, Owner's work forces, utility companies, construction managers, testing firms, shippers, and truckers, and the employees, agents, and representatives of any or all of them.
- B. **Constituent of Concern**—Asbestos, petroleum, radioactive material, polychlorinated biphenyls (PCBs), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to (a) the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq. ("CERCLA"); (b) the Hazardous Materials Transportation Act, 49 U.S.C. §§5101 et seq.; (c) the Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq. ("RCRA"); (d) the Toxic Substances Control Act, 15 U.S.C. §§2601 et seq.; (e) the Clean Water Act, 33 U.S.C. §§1251 et seq.; (f) the Clean Air Act, 42 U.S.C. §§7401 et seq.; or (g) any other federal, State, or local statute, law, rule, regulation, ordinance, resolution, code, order, or decree regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

*Attachments:*

ATTACHMENTS	Included	Not Included
Appendix I, Scope of Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Appendix II, Engineer's Standard Hourly Rates	<input checked="" type="checkbox"/>	<input type="checkbox"/>



IN WITNESS WHERE OF, the parties hereto have executed this Agreement, the Effective Date of which is indicated on page 1.

Owner: City of Washington

Engineer: Thouvenot, Wade & Moerchen, Inc.

By:

By:

Print name: Dennis Carr, PE

Print name: Serena Page, PE, PLS

Title: City Engineer

Title: Peoria Branch Manager

Date Signed:

Date Signed: 6/9/2023

Engineer License or  
Firm's Cert. No. (if required): 184-001220 (IL)  
State of: Illinois

**Address for Owner's receipt of notices:**

301 Walnut Street  
Washington, IL 61571  
309-444-1136

**Address for Engineer's receipt of notices:**

1014 W Pioneer Parkway, Suite 100  
Peoria, IL 61615  
309.326.6030



This is **Appendix 1, Scope of Services**, referred to in and part of the Short Form of Agreement between Owner and Engineer for Professional Services dated **June 9, 2023**.

## Scope of Services

### WATER INFRASTRUCTURE SERVICES – LEAK DETECTION SERVICES

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#### ARTICLE 1 – PROJECT BACKGROUND AND DESCRIPTION

- 1.01 The City of Washington has requested the completion of leak detection services throughout the City in order to lessen the amount of water loss within their system.

#### ARTICLE 2 – SCOPE OF SERVICES – BASIC SERVICES

- 2.01 TWM will work with the City of Washington to best utilize City funds for leak detection as it pertains to emergency locates as well as preliminary assessment of additional main lines.

#### ARTICLE 3 – EXCLUDED SERVICES

- 3.01 While TWM, Inc. can provide the following services or obtain sub-consultants who can assist us with this work, the services listed below are not included within this contract:
- A. Performing any water main testing, including flow testing, pressure testing, etc.
  - B. Performing any resistivity testing, Redox potential testing, sulfide testing, pH testing, or other similar testing to determine corrosion potential of the native soils.
  - C. Performing any construction staking services.
  - D. Performing any geo-technical analysis, soils testing, or compaction testing.
  - E. Performing any pot-holing or field investigation to physically locate utilities.
  - F. Performing any pavement, asphalt, or concrete testing.
  - G. Performing any environmental assessment.
  - H. Investigating or performing any archeological (Phase I, II, or III) study that might be required by the State Historic Preservation Agency.

#### ARTICLE 4 – INFORMATION WE NEED FROM YOU

- 4.01 We need you to provide to us with some specific information so we can perform our Scope of Services. That includes:
- A. Provide TWM, Inc. with all criteria and full information as to Owner's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility, and expandability, and any budgetary limitations; and furnish copies of all design and construction standards which Owner will require to be included in the Drawings and Specifications; and furnish copies of Owner's standard forms, conditions, and related documents for Engineer to include in the Bidding Documents, when applicable.
  - B. Furnish to TWM, Inc. any other available information pertinent to the Project including reports and data relative to previous designs, or investigation at or adjacent to the water main installation.
  - C. Any additional information available to you or to your consultants or contractors that might be applicable, necessary or helpful to us in performing our Scope of Services.

#### ARTICLE 5 – RIGHT OF ENTRY

- 5.01 Throughout the term of this Contract, you agree to obtain and grant to us and our personnel, reasonable and necessary nonexclusive access to the project site and property so that we can fulfill our **Basic Scope of Services** listed above. While on the project site and property, our personnel will make every reasonable effort to protect that property and to comply with applicable safety procedures, including those specifically communicated to us by you. You understand that



the use of surveying or other equipment may unavoidably cause some minor damage to trees, shrubs, crops or sod, the correction of which is not a part of this Contract.

## ARTICLE 6 – QUALIFICATIONS

- 6.01 We employ Licensed / Registered Land Surveyors, Licensed Professional Engineers, and Licensed Structural Engineers. When appropriate, our work will be performed by or under the direct supervision of one of those professionals and when applicable, documents submitted to you or on your behalf will bear the seal of the respective Surveyor or Engineer and certification to that effect.

## ARTICLE 7 – SPECIFIC TERMS AND CONDITIONS

- 7.01 This contract is based upon the following specific terms and conditions:
- A. You are responsible for paying any and all permit and / or application fees, utility connection fees, any fees required by statute or ordinance, any fees associated with a Municipality's adopted codes, and any fees for activities including but not limited to, legal recordation, State water permits, NPDES NOI permits, wetlands delineation studies, archeological studies, municipal review, or title report. If you should require us to pay any such fees anyway and then request reimbursement from you, you agree to reimburse us for the cost of the actual fees plus a fifteen (15) per cent surcharge in order to offset costs for processing, the cost of money, and professional liability insurance.
  - B. You agree to not initiate any construction based upon our plans until any and all required permits and approvals are received from any issuing agency or municipality. Should you disregard this limitation and initiate work or seek bids prior to plan approval or permits being issued, and should the municipality or issuing agency require modifications to the plans as we submitted, we are not responsible for the revised bid prices that may result, or for the cost to remove, modify or otherwise change any construction performed prior to the issuance of a permit.
  - C. When we submit any drawings, plans, specifications, plats, descriptions, or other documents to you for your review you agree to review them within thirty (30) days to determine if they are generally acceptable and if so, to note your approval, which shall not be unduly withheld.
  - D. As part of your review, should you detect what you believe to be errors, necessary changes, or failure on our part to complete our responsibilities under the Basic Scope of Services above, you are to immediately notify us. We will then correct any errors you note or complete any remaining tasks, as necessary.
  - E. If we have agreed to a lump sum fee for our services, that fee, as proposed, does not include making multiple revisions to the civil engineering design documents.
  - F. If your review is delayed for some reason, we may temporarily suspend work until you are able to complete the review, so that we are able to make any required changes before proceeding with the project.



This is **Appendix 2, Engineer's Standard Hourly Rates**, referred to in and part of the Short Form of Agreement between Owner and Engineer for Professional Services dated June 9, 2023.

## Engineer's Standard Hourly Rates

- A. Standard Hourly Rates:
- Standard Hourly Rates are set forth in this Appendix 2 and include salaries and wages paid to personnel in each billing class plus the cost of customary and statutory benefits, general and administrative overhead, non-project operating costs, and operating margin or profit.
  - The Standard Hourly Rates apply only as specified in Paragraphs 2.01, 2.02, and 2.03, and are subject to annual review and adjustment.
- B. Schedule of Hourly Rates:

**THOUVENOT, WADE & MOERCHEN, INC.**  
**SCHEDULE OF FEES**

Principal .....	\$195.00
Senior Engineer .....	\$178.00
Senior Project Manager .....	\$178.00
Project Engineer V .....	\$175.00
Project Engineer IV .....	\$166.00
Project Engineer III .....	\$156.00
Project Engineer II .....	\$145.00
Project Engineer I .....	\$134.00
Project Manager IV .....	\$166.00
Project Manager III .....	\$156.00
Project Manager II .....	\$145.00
Project Manager I .....	\$134.00
Senior Structural Engineer .....	\$189.00
Structural Engineer V .....	\$184.00
Structural Engineer IV .....	\$174.00
Structural Engineer III .....	\$165.00
Structural Engineer II .....	\$153.00
Structural Engineer I .....	\$146.00
Survey Crew (3 person crew) .....	\$239.00
Survey Crew (2 person crew) .....	\$188.00
Survey Crew (2 person crew w/Robotics or GPS) .....	\$202.00
Survey Crew (1 person w/Robotics or GPS) .....	\$145.00
Survey Crew (2 person w/3D Scanner) .....	\$272.00
Survey Crew (1 person w/3D Scanner) .....	\$205.00
Engineer III .....	\$122.00
Engineer II .....	\$117.00
Engineer I .....	\$111.00
Surveyor V .....	\$172.00
Surveyor IV .....	\$159.00
Surveyor III .....	\$146.00
Surveyor II .....	\$129.00
Surveyor I .....	\$108.00

### Appendix 2, Engineer's Standard Hourly Rates

EJCDC® E-520, Short Form of Agreement Between Owner and Engineer for Professional Services.  
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3D Scanning Technician .....	\$162.00
Technician VI .....	\$108.00
Technician V .....	\$101.00
Technician IV .....	\$96.00
Technician III .....	\$90.00
Technician II .....	\$85.00
Technician I .....	\$80.00
Jr. Technician .....	\$54.00
IT Manager .....	\$143.00
Systems Administrator .....	\$122.00
Cad Manager .....	\$123.00
Cad Designer III .....	\$110.00
Cad Designer II .....	\$100.00
Cad Designer I .....	\$89.00
Accountant III .....	\$129.00
Accountant II .....	\$111.00
Accountant I .....	\$92.00
Word Processing .....	\$81.00
Air & Vacuum Testing 2 Technicians w/ Equipment .....	\$226.00
Live Sewer Testing .....	\$291.00
Mandrel Testing 2 Technicians w/ Equipment .....	\$208.00
Live Sewer Testing .....	\$273.00
Video Testing 1 Technician w/ Equipment .....	\$242.00
2 Technicians w/Equipment .....	\$330.00
Outside Services (Consultants, Delivery Service, Express Mail, etc.)	At Cost plus 15%
Commercial Travel, Meals, Lodging & Other Expenses	At Cost
4 X 4 Polaris (per Day)	\$78.00
Travel (Non local) per Mile at current GSA rate.	

**Appendix 2, Engineer's Standard Hourly Rates**

EJCDC® E-520, Short Form of Agreement Between Owner and Engineer for Professional Services.  
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